

IN THE CLAIMS

Please amend claims 1, 3, 6-9, and add new claims 46-49 as follows:

1. (CURRENTLY AMENDED) A method of processing a video stream received by a computer, the method comprising:
 - receiving a video stream, wherein the video stream comprises multiple frames;
 - analyzing the video stream to identify scene changes between frames of the video stream; and
 - ~~marking~~ updating one or more user or private data fields of one or more scene-change frames of the video stream to indicate that a scene change occurs in the scene-change frame ~~, as well as a type of~~ and to indicate the scene change's type, in a manner transparent for encoded content within the frames ~~, and in order to provide an index of access points for displaying specific scenes or segments.~~
2. (ORIGINAL) The method of claim 1, wherein the computer comprises an encoder.
3. (CURRENTLY AMENDED) The method of claim 2, wherein ~~marking one or more the~~ user or private data fields ~~occurs~~ are updated within the encoder.
4. (CANCELED)
5. (CANCELED)
6. (CURRENTLY AMENDED) The method of claim 1, wherein ~~[[a]]~~ the scene change occurs when the content of a first frame of the video stream changes sufficiently in a second frame of the video stream such that the second frame triggers a new view relative to the first frame.
7. (CURRENTLY AMENDED) The method of claim 1, wherein the scene change's type ~~of scene change~~ indicates ~~[[a]]~~ that the scene change in the scene-change frame occurred due to one or more specific scene change attributes.

8. (CURRENTLY AMENDED) The method of claim 7, wherein the scene change attributes identify that [[a]] the scene change occurred due to a scan, tilt, zoom or cut.

9. (CURRENTLY AMENDED) The method of claim 8, further comprising updating the user or private data fields of the scene-change frames with one or more additional data bits that represent an amount of change caused by ~~a corresponding~~ the scene change ~~attribute~~.

10. (ORIGINAL) The method of claim 1, further comprising compressing the video stream to generate a video file.

11. (ORIGINAL) The method of claim 10, wherein a frame of the video file representing a scene change comprises a full frame

12. (ORIGINAL) The method of claim 10, wherein a frame of the video file representing a scene change comprises a delta frame.

13. (ORIGINAL) The method of claim 10, further comprising extracting one of more frames representing a scene change from the video file with an extraction tool, wherein the extraction tool selects frames representing scene changes by reading scene change data in the fields.

14. (ORIGINAL) The method of claim 13, wherein the extraction tool accesses the scene change data in the fields in real time.

15. (ORIGINAL) The method of claim 13, further comprising generating a storyboard with the extracted frames.

16-45. (CANCELED)

46. (NEW) The method of claim 1, further comprising updating the user or private data fields of the scene-change frames with a percentage field that indicates a percentage of scene change in the scene-change frames.

47. (NEW) The method of claim 1, further comprising updating the user or private data fields of the scene-change frames with a direction field for motion changes in the scene-change frames.

48. (NEW) The method of claim 1, further comprising updating the user or private data fields of the scene-change frames with an effects indicator that describes a transition effect in the scene-change frames.

49. (NEW) The method of claim 1, wherein the user or private data fields of the scene-change frames that indicate the scene change occurs in the scene-change frame are processed in order to provide an index of access points for displaying specific scenes or segments.